50 SHEETS 100 SHEETS 200 SHEETS

22-141 22-142 22-144

DETECTOR OUTPUT CIRCUIT DIGITAL DETECTOR 10 ... PROCESSOR 58 RAW IMAGE SEGMENTED IMAGE 30-DXNAMIC RANGE .. IMAGE CHARACTERISTICS DYNAMIC RANGE DETERMINING SYSTEM SOURCE SOURCE CONTROL CIRCUIT

F18,2

OBTAIN RAW DIGITAL IMAGE

52 DIVIDE RAW IMAGE IN HORIZONTAL AND/OR VERTICAL BANDS

AVERAGE BANDS TO FORM

HORIZONTAL/VERTICAL PROFILES

OF SUBSAMPLED VECTORS

56 DIFFERENTIATE

SUBSAMPLED VECTOR FOR

EACH BAND

COMPUTE THRESHOLD BASED ON RAW IMAGE DYNAMIC RANGE

DISCRIMINATE EACH DIFFERENTIATED
BAND TO IDENTIFY STARTING
AND STOPPING BOINT OF NONCLINICAL REGION IN EACH
DIFFERENTIATED BAND

62 - MASK NON-CLINICAL REGION
OUT OF EACH DIFFERENTIATED
BAND TO FORM SEGMENTED
IMAGE OF CLINICAL REGION

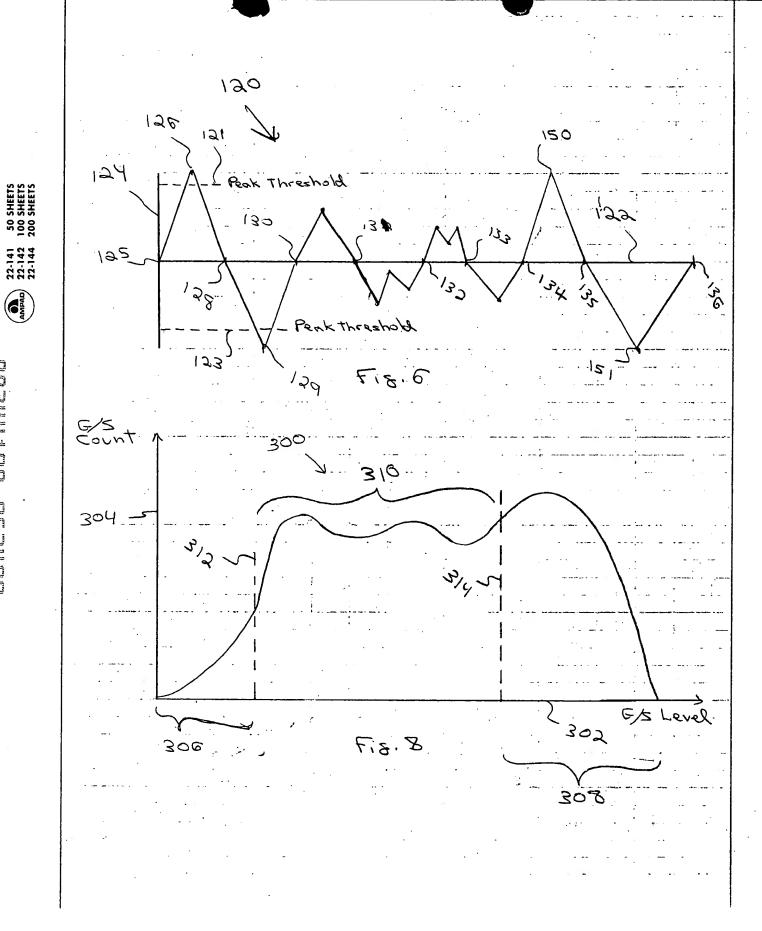
DETERMINE DYNAMIT RANGE CHARACTERISTICS OF SEGMENTED IMAGE

ADJUST THE DY NAMIC RANGE OF THE SYSTEM TO FORM A DYNAMIC RANGE ADJUSTED TMAGE BASED ON THE DETERMINED DYNAMIC RANGE CHARACTERISTICS

22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS



70 13 76 70 £18. A. 80) 96 143 الم 100 -102 92 110 F18.5



F18.7

200 OBTAIN RAW DIGITAL IMAGE

GENERATE HISTOGRAM OF RAW IMAGE

204 CALCULATE GRAYSCALE THRESHOLDS FOR NON-CLINICAL REGIONS

IDENTIFY HISTOGRAM PEAKS
CORRESPONDING TO NON-CLINICAL
REGIONS BASED ON THE GRAYSCALE
THRESHOLDS

MASK GRAYSTALE LEVELS OF
THE HISTOGRAM ASSOCIATED
WITH NON-CLINICAL REGIONS
TO FORM SEGMENTED INAGE
OF CLINICAL REGION

CHARACTERISTICS OF
SEGMENTED IMAGE

ADJUST THE DYNAMIC RANGE
OF THE SYSTEM TO FORM A
DYNAMIC RANGE ADJUSTED
IMAGE BASED ON THE DETERMINED
DYNAMIC RANGE CHARACTERISTICS

22-141 50 SHETS 22-142 100 SHETS 22-144 200 SHETS

